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DATORKER® Strain Wave Gear Technical Data

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Specification	DGH-40-100-PO	Diagram	
Model	40		
Ratio	100		

Item	Value	Unit
Rated torque at input 2000rpm	345	Nm
Average torque	484	Nm
Repeated peak torque	738	Nm
Momentary peak torque	1400	Nm
Average input speed	3000	rpm
Maximum input speed	4000	rpm
Moment of inertia	4.5	$x10^{-4}$ kgm^2
Transmission accuracy	1	arc min
Repeatability	±6	arc sec
Maximum backlash	7	arc sec
Hysteresis loss	1	arc min
Lost motion	1	arc min
Torsional Stiffness K1	3.8	kgfm/arc min
Torsional Stiffness K2	6	kgfm/arc min
No load starting torque	34	cNm
No load running torque(25°C/2000rpm)	67	cNm
Weight	5.1	kg
Permissible dynamic tilting moment	849	Nm
Permissible axial load	9.25	kN
Permissible radial load	6.198	kN